ORBITAL RESEARCH INC

Company Information

Company Name
ORBITAL RESEARCH INC

Address
4415 EUCLID AVE STE 500
CLEVELAND, OH, 44103-3733
Phone
216-649-0399

URL
http://www.orbitalresearch.com
DUNS
557510336

Number of Employees
25
Hubzone Owned:
N

Minority Owned:
N
Woman Owned:
N

Award Totals

jQuery(document).ready(function() { (function ($) { var program = ['SBIR Phase I', 'SBIR Phase II', 'STTR Phase I', 'STTR Phase II']; var programCount = [{"y":74,"amount":"7,492,422.00"},{"y":34,"amount":"24,711,274.00"},{"y":2,"amount":"170,000.00"},{"y":0,"amount":"0.00"}]; //var programAmount = [7,492,422.00,24,711,274.00,170,000.00,0.00]; var title = 'Firm Award by Program and Phase'; var titleFormat = 'Count: {point.y:0f}'; var titleFormatAmount = 'Amount: ${point.y:.2f}'; var charWidth = $('#award-totals-chart-count').width(); charWidth -= 120; $('#award-totals-chart-count').highcharts({ chart: { type: 'column' }, title: { text: title }, xAxis: { categories: program, labels: { rotation: -45, style: { fontSize: '13px', fontFamily: 'Verdana, sans-serif' } } }, yAxis: { min: 0, title: { text: 'Awards' } }, legend: { enabled: false }, tooltip: { formatter: function() { return '' **+ this.x +** '

' + 'Award Count: **'+ this.y +**'
' + 'Award Amount: **$'+ this.point.amount +**''; } }, series: [{ name: 'Program/Phase', data: programCount, dataLabels: { enabled: false, rotation: -90, color: '#FFFFFF', align: 'right', //format: '{point.y:.0f}', // no decimal y: 10, // 10 pixels down from the top style: { fontSize: '13px', fontFamily: 'Verdana, sans-serif' } } }] }); $("#award_total_table").trigger('click'); })(jQuery); });

- Award Table
- Award Chart

PROGRAM/PHASE
AWARD AMOUNT ($)

NUMBER OF AWARDS
SBIR Phase I
$7,492,422.00
74
SBIR Phase II
$24,711,274.00
34
STTR Phase I
$170,000.00
2

Award List

1.

Force Learning Robotic System for Dynamic Characterization of Micro-Scale Aerial Vehicles

Amount: $100,000.00

The design process for Micro Aerial Vehicle (MAVs) requires specialized tools, which is particularly true for biologically inspired MAV concepts. Some of the positive features of a MAV, including ligh ...

SBIR Phase I 2010 Air ForceDepartment of Defense

2.

Improved Full Authority Digital Engine Control (FADEC) System

Amount: $100,000.00

Current Full Authority Digital Engine Controls (FADECs) and Electronic Engine Controls (EECs) perform their tasks by using multiple IC chips and several printed circuit boards. Tasks performed by the ...

SBIR Phase I 2010 Air ForceDepartment of Defense

3.

FADEC Workload Reduction through Standardized Fault Tolerant Smart Sensing Nodes

Amount: $749,920.00

Present full authority digital engine control (FADEC) systems interface with numerous sensing elements throughout the turbine engine to provide engine control and health management functions. Even th ...

SBIR Phase II 2010 Department of Defense

4.

Affordable Rotorcraft Air Vehicle Drag Reduction for Cruise Efficiency and Enhanced Lift Using Plasma Flow Control

Amount: $70,000.00

The V-22 Osprey can benefit from drag reductions in at least two areas: low angle of attack drag reduction will provide an improvement in the cruise efficiency and hover download reduction will provid ...

SBIR Phase I 2010 NavyDepartment of Defense

5.

Machine Diagnostics System on a Chip

Amount: $99,999.00

The diagnostic systems in use in military machines are large and expensive. Other military machines could benefit from diagnostic and prognostic systems, but cannot afford the added size, weight and ...

SBIR Phase I 2010 Defense Microelectronics ActivityDepartment of Defense

6.

Pilot Physiologic Assessment System (PPAS)

Amount: $1,499,938.00

Orbital Research Inc in collaboration with NASA Glenn Research Center (NASA GRC), Kent State University (KSU) and Massachusetts Institute of Technology (MIT) will design and test the second generation ...

SBIR Phase II 2010 NavyDepartment of Defense

7.

MICROACTUATOR ARRAYS FOR ADAPTABLE CONTROL SURFACES

Amount: $49,813.00

FLOW SEPARATION CONTROL IS CRITICAL TO THE PERFORMANCE AND SAFETY OF MILITARY AIRBORNE OR SEABORNE VEHICLES. FLUIDS FLOWING OVER AIRFOILS OR THROUGH FLOW PASSAGES CAN SEPARATE FROM WALL SURFACES, CAUS ...

SBIR Phase I 1991 Defense Advanced Research Projects AgencyDepartment of Defense

8.

TIGHT SHUTOFF MICOVALVE

Amount: $50,000.00

MICROVALVES PREVIOUSLY MADE CANNOT BE RELIED UPON FOR LONG TERM TIGHT SHUTOFF. IF MICROFLUIDIC SYSTEMS ARE TO BECOME A REALITY, TIGHT SHUTOFF MUST BE ACHIEVED BY MICROMACHINED VALVES. ALTHOUGH SURFACE ...

SBIR Phase I 1992 Defense Advanced Research Projects AgencyDepartment of Defense

9.

Fiber Reinforced Rebar from Recycled Plastic

Amount: $49,269.00

Recycling of plastic containers has been retarted by the lacck of demand for plastic scrap. This is due to the dearth of products manufactured from recycled plastics. One of the reasons for this is th ...

SBIR Phase I 1993 ArmyDepartment of Defense

10. [A NOVEL MICROACTUATOR FOR THE REFRESHABLE BRAILLE DISPLAY SYSTEM]

Amount: $40,000.00

THIS WORK WILL DEVELOP A NOVEL MICROACTUATOR MECHANISM FOR USE WITH A COMPUTER INTERFACED REFRESHABLE BRAILLE DISPLAY SYSTEM (RBDS). THE MICROACTUATOR WILL BE DESIGNED TO OPERATE WITHIN THE POWER LIM ...

SBIR Phase I 1994 Department of Education

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